

Application:

The MONARFLEX® Gridline 500 reinforced membrane is a geo and moisture barrier to be used over the foundation of houses and buildings, separating different material, preventing water from penetrating etc.

Properties:

The MONARFLEX® Gridline 500 membrane is a four layer moisture barrier with two layers of blown film and reinforcing grid laminated together by a coater layer.

Product data	MONARFLEX® Gridline 500			
Composition:				
Top layer	black LDPE blown film			
Coater layer	black LDPE			
Grid layer	Grid, 12x12mm, 1100 dtex, polyester			
Bottom layer	black LDPE blown film			
Colour	Black			
Application	100 -150 mm overlapping and either sealed with double-sided butyl tape or welded together by Monarflex Extrusion Welding.			
Technical data	Unit	Value	Tolerance	Test method
Length	m	25 / 100	+1,5% -0,5%	EN 1848-2
Width	m	4,00	+/- 2%	EN 1848-2
Thickness	mm	0,5	+/- 10%	EN 1849-2
Weight	g/m ²	495	+/- 5%	EN 1849-2
Weight per roll	kg	50/200		EN 1848-2
Tensile strength	kN/m	MD: > 7,5		EN 12311-2
		CD: > 7,5		
Elongation	%	MD: 15-20		EN 12311-2
		CD: 15-20		
Water tightness	kPa	20		EN1928, method B
Dimensional stability	%	Max 2	-0,9 / -0,1%	EN1107-2
Sd value	m	>100	±50	EN 1931
Water vapour permeability	kg/(m ² .s)	2,0x10 ⁻⁹	0,5 x 10 ⁻⁹	EN 1931
Tear resistance	N/mm ²	188		EN12310-1
Resistance to static loading	N	Pass at 200N		EN 12730, Method B
Temperature range	°C	-40 to 80		
Puncture resistance	N	180		FTMS-101C
Cold flexibility	°C	Pass at -20°C		MFx test
Bitumen compatibility	Pass/Fail	Pass class W1		EN 1548
Joint strength, tape	N/50mm	>60 N		EN 12317-2
Monarflex s.r.o., Továrenská 1, SK 943 03 Stúrovo, Slovakia 06 1162-CPD-0254				